
500 ADDITIONAL CO-OP RESOURCES
April, 2006

501 Equipment Lists

The Clean Seas equipment and material inventory is presented in Table 501-1.

TABLE 501-1

Inventory of Equipment and Materials

This list is not intended to correspond to temporary relocation and/or movement of equipment within Clean Seas' Area of Response nor to periods when equipment is out of service for repairs or maintenance.

I. CONTAINMENT

a) Boom, Fast Response (Flotation x Skirt)

1)	Open Ocean Boom	
	• Expandi 7000 (28 x 42)	3,350 ft.
	• Kepner 24" High Seas (24 x 36)	3,000 ft.
	• Expandi 4300 (20 x 23)	3,300 ft.
	• Oil Stop (18 x 25)	9,000 ft.
	• OOFF ft. (18x25)	<u>4,500 ft.</u>
	Total:	23,150 ft.
2)	Offshore/Near Shore/Protective Boom	
	• American Marine (12 x 18)	1,000 ft.
	• Kepner Sea Curtain (12 x 18)	7,400 ft.
	• Kepner Sea Curtain (8 x 12)	13,500 ft.
	• Kepner 8" Fast Current Boom (8x12)	1,900 ft.
	• Troil Boom (8 x 10)	<u>2,000 ft.</u>
	Total:	25,800 ft.

Total Boom Available: 48,950 ft.

The total boom available will change from time to time as maintenance, cleaning, survey, and replacement occur on a regular basis.

b) Storage

- 1) T/B Tide-Mar VII - This Tank Barge is 160' x 39' with a storage capacity of 7,840 BBLS and is normally moored off Santa Barbara Harbor.
- 2) Eight (8) 100 barrel Rigid Dracones (barges).
- 3) Storage Bags/Containers
Three (3) 5,000-gallon (120 BBLS) Kepner Floating Storage Bags
Four (4) 1,200-gallon (28 BBLS) Kepner Floating Storage Bags
One (1) 6,000-gallon (140 BBLS) Dracone Floating Bag
Twelve (12) 2,400-gallon (57 BBLS) Fast Tanks

II. RECOVERY

The following Skimmers are available at the yard or prestaged on vessels and near deployment sites.

NAME	#	Viscosity	Open sea, protected	Gas (G) Hydraulic (H)	BPD	Total Capacity BPD	Derated BPD
Acme 39T	1	light	protected	G	8,160	8,160	1,632
Acme 51T	2	light	protected	G	9,600	19,200	3,840
ODI	4	heavy	open	H	25,704	102,816	20,562
GT 185	6	heavy	open	H	6,768	40,608	8,121
GT 260	1	heavy	open	H	15,096	15,096	3,019
Lori-2	5	heavy	open/protect	H	12,360	61,800	12,360
Lori-3	1	heavy	open/protect	H	18,552	18,552	3,710
Roto 30	2	heavy	open/protect	H	4,800	9,600	1,920
Lori - 5	4	heavy	open	H	30,912	123,648	24,729
Desmi DOP 250 Wier Skimmer	2	heavy	open/protect	H	15,085	30,170	6,034
Total:						429,635	85,927

III. VEHICLES/TRAILERS

- a) An assortment of trucks and response vehicles are available for immediate response operations and contracts are in place for additional equipment as needed, including a 12-ton crane truck, semi tractor, stake and pickup trucks, and other vehicles.

b) **Enclosed Trailer Vans**

Nine (9) 40-foot trailer vans stocked with boom, absorbents, small skimmers, and miscellaneous cleanup equipment. Vans are stored in strategic locations throughout the Clean Seas Area of Response.

c) **Fast Response Harbor Trailers**

Nine (9) Fast Response Harbor Trailers (FRHT) equipped with pollution control equipment including near shore protective boom, sorbent materials, and miscellaneous gear.

IV. BOATS/VESSELS

a) **Oil Spill Response Vessels (OSRVs)**

OSRV's are normally moored near Santa Barbara Harbor and Point Conception. Movement of OSRV's outside the Area of Response requires concurrence of Federal/State agencies if such movement significantly reduces cleanup response capability.

Each vessel has: Two Lori Five Brush advancing skimmer units and accessory equipment; (1,500 feet of 70 inch Expandi Boom or Kepner 24-inch High Seas Boom on a hydraulic reel, and 3,000 feet of open ocean boom) (Oil Stop Continuously Inflatable and/or 43-inch Expandi Boom with Roto-Pak recovery system), a GT 185/260 and Roto Drum 30 skimmer with power unit, a 10-ton or larger crane, a calibrated dispersant application system with dispersant, ten bags each of absorbent boom and pads, one Desmi 250 heavy oil pump, a site characterization kit, an infrared camera surveillance system, and oil storage.

b) **Spill Response Vessels (SRVs), Fast Response Support Boats (FRSB), and Miscellaneous Small Boats**

Two (2) Spill Response Vessels:

"COMET" (32 x 8 feet) is equipped with a Lori Two Brush Side Skimmer. and seven (7) BBLs of storage.

"CLEAN SWEEP" (32 x 11 feet) is equipped with a Lori Three Brush Skimmer installed in the hull and thirty (30) BBLs of storage.

One (1) 32 x 8 foot Fast Response Support Boat with outboard motors (Ajax).

One (1) 24 foot Rigid Hull Inflatable Boom Boat

One (1) 18 foot Rigid Hull Inflatable Boat

One (1) 10 foot inflatable boat.

Two (2) 21 foot MonArk Utility boats with outboard for use as work/boom boats.

One (1) 19 foot boom towing skiff (CLEAN PULL).

Eighteen (17) 15 to 18 foot aluminum skiffs with outboards stored at Clean Seas Support Yard.

Note: Individual boats and pieces of equipment are subject to periodic transfer between vessels and the support yard for maintenance and/or training exercises.

V. ABSORBENTS/DISPERSANTS/SPRAY EQUIPMENT

a) Clean Seas maintains a large inventory of absorbents including booms, sweeps, blankets, sheets, bags, and "pom-poms". Inventories are stored in the Carpinteria Yard, on Oil Spill Response Vessels, and in vans situated throughout the Clean Seas Area of Response. Additional quantities are available as back-up supplies from warehouses in the Los Angeles area.

b) **Corexit #9527**

18,000 gallons of Corexit #9527 dispersant are stored at the Clean Seas Support Yard, and on the Oil Spill Response Vessels.

c) **Helicopter Chemical Dispersant Spray Unit**

Two (2) Simplex Model 2000 helicopter dispersant sprayers with 150-gallon buckets and 32 foot booms.

d) **Surface Chemical Dispersant Spray Unit**

Two (2) surface dispersant spray units with pump, booms, and mountings for OSRV's.

e) Transfer Pumps

Seven (7) Desmi Pumps (DOP 250) used as a cargo transfer pump, can move a product at a rate of 440 GPM. These submersible pumps feature a modified archimedes screw pump including a built-in rotating sealing disc which interlocks with the screw windings. This allows the pumps to provide up to 150 psi. Hydraulic flow on this model is 42 GPM. Maximum hydraulic pressure is 3,000 psi.

Two (2) FRAMCO TK-150 Pumps. The TK- 150 has the capability to transfer a product at a rate exceeding 600 GPM. This submersible unit is a single-stage centrifugal portable pump.

Three (3) YanMar diesel powered 2-inch Master Pumps with a rated capacity of 125 BPH provides highly portable and safe pumping capacity.

Five (5) YanMar diesel powered 3-inch diaphragm pumps with a pumping capacity of 114 BPH.

Five (5) Hydraulic powered 2-3 inch double stage submersible pumps.

VI. RADIO COMMUNICATIONS SYSTEM

- a) A radio system consisting of VHF on 159.480/158.445 MHz and UHF on 454.00/459.00 MHz. This provides communication throughout the Clean Seas' Area of Response. This system consists of:
 - 18 VHF Handheld (Motorola) HT 1000
 - 1 VHF/UHF Base Station - Clean Seas Office
 - 1 VHF/UHF Base Station - Clean Seas Support Yard
 - 3 VHF Mobile Units - MR CLEAN & MR CLEAN III
 - 9 Marine VHF radios - MR CLEAN, MR CLEAN III, AJAX, COMET, RHIB, CLEAN SWEEP, CLEAN PULL
 - 1 UHF Mobile Unit - MR CLEAN
 - 1 Repeater - Santa Ynez Peak (VHF - 158.445 MHz, UHF -459.00 MHz)
 - 17 Cellular telephones - vessels, vehicles, portables
 - 6 Facsimile machines - Clean Seas Office (2), Clean Seas Support Yard (3), MR CLEAN, MR CLEAN III, portable (cellular)

VII. MISCELLANEOUS

- a) Large inventory of equipment including forklifts, compressors, pumps, tanks, generators, tools, accessory parts and spares, and other miscellaneous oil spill cleanup equipment located in the Clean Seas Support Yard and other strategic locations in Clean Seas' Area of Response.
- b) Two (2) ORION Spill Tracking Systems with a total of 10 buoys. One transceiver is located on MR CLEAN III and the other is located in the Clean Seas Support Yard with buoys pre-staged on THE CLEAN SWEEP, MR CLEAN III, and the Clean Seas Support Yard.
- c) One (4) Portable Global Positioning System (GPS) receiver.
- d) Five (5) propane-powered wildlife hazing guns.
- e) Two (2) All-Terrain Vehicles.
- f) 100+ Visual Tracking buoys located on OCS Platforms, Clean Seas Support Yard and Clean Seas Vessels.

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